## AMENDMENTS TO THE CLAIMS

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Claims 1-9 (Canceled).

10. (Currently amended): A method of amplifying optical signals, comprising:

transmitting a first optical signal from a first bidirectional port of a first coupler to a first unidirectional port of a second coupler connected to the first coupler by a delay element;

transmitting the first optical signal from the first unidirectional port through an amplifier to a second unidirectional port of the second coupler; and

transmitting the first optical signal from the second unidirectional port to a second bidirectional port of the first coupler.

Claims 11-12. (Canceled).

13. (Currently amended): The method of Claim 10, further comprising:

transmitting a second optical signal from a second bidirectional port of the first coupler to the first unidirectional port;

transmitting [[a]] the second optical signal from the first unidirectional port through the amplifier to the second unidirectional port; and

transmitting the second optical signal from the second unidirectional port to the first bidirectional

- 14. (Previously presented): The method of Claim 10, wherein the first optical signal is at a first wavelength.
- 15. (Previously presented): The method of Claim 13, wherein the second optical signal is at a second wavelength.
- 16. (Currently amended): A method of amplifying optical signals, comprising:

transmitting a first optical signal from at least one of first and second bidirectional ports of a first coupler to a first unidirectional port of a second coupler connected to the first coupler by a delay element;

transmitting the first optical signal from the first unidirectional port through an amplifier to a second unidirectional port of the second coupler; and

transmitting the first optical signal from the second unidirectional port to the at least one of first and second bidirectional ports.

Claims 17-18. (Canceled).

19. (Currently amended): The method of Claim 16, further comprising:

transmitting a second optical signal from at least one of the first and second bidirectional ports to the first unidirectional port;

transmitting [[a]] the second optical signal from the first unidirectional port through the amplifier to the second unidirectional port; and

transmitting the second optical signal from the second unidirectional port to at least one of the first and second bidirectional ports.

- 20. (Previously presented): The method of Claim 16, wherein the first optical signal is at a first wavelength.
- 21. (Previously presented): The method of Claim 19, wherein the second optical signal is at a second wavelength.
- 22-24. (Canceled).
- 25. (Currently amended): An optical router, comprising:
  - a first bidirectional port coupled to a first unidirectional port;
  - a delay element coupled to the first bidirectional port and the first unidirectional port; and amplifier coupled to the first unidirectional port and a second unidirectional port; and a second bidirectional port coupled to the second unidirectional port.
- 26. (Canceled).
- 27. (Previously presented): The optical router of Claim 25, further comprising:
  - a first optical coupler coupled to the first bidirectional port and the second bidirectional port; and
  - a second optical coupler coupled to the first unidirectional port and the second unidirectional port.
- 28. (Previously presented): The optical router of Claim 25, wherein the amplifier is a unidirectional amplifier.

- 29. (Canceled).
- 30. (New): The optical router of Claim 10, wherein the delay element comprises at least one pair of electrodes.
- 31. (New): The optical router of Claim 10, wherein the first and second couplers are 3 dB couplers.
- 32. (New): The optical router of Claim 10, wherein the delay element is a difference in distance ΔL indicating a real MZI difference between the first and second couplers.
- 33. (New): The optical router of Claim 16, wherein the delay element comprises at least one pair of electrodes.
- 34. (New): The optical router of Claim 16, wherein the first and second couplers are 3 dB couplers.
- 35. (New): The optical router of Claim 16, wherein the delay element is a difference in distance ΔL indicating a real MZI difference between the first and second couplers.
- 36. (New): The optical router of Claim 25, wherein the delay element comprises at least one pair of electrodes.
- 37. (New): The optical router of Claim 27, wherein the first and second optical couplers are 3 dB couplers.
- 38. (New): The optical router of Claim 25, wherein the delay element is a difference in distance ΔL indicating a real MZI difference between the first and second optical couplers.